PATENT ASSIGNMENT

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SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY DATA							
N			ame	Execution Date]		
John M. Kowalski 10/29/2007							
RECEIVING PARTY DATA							
Name:	Sharp Laboratories of America, Inc.						
Street Address:	5750 Northwest Pacific Rim Boulevard						
City:	Camas						
State/Country:	WASHINGTON						
Postal Code:	98607						
PROPERTY NUMBERS Total: 1							
Property Type			Number				
Patent Number: 81		81120					
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ATTORNEY DOCKET NUMBER:			4299.2.2				
NAME OF SUBMITTER:			Wesley L. Austin				
Total Attachments: 3 source=Assignment_Inventors_4299-2-2#page1.tif source=Assignment_Inventors_4299-2-2#page2.tif source=Assignment_Inventors_4299-2-2#page3.tif							

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<u>ASSIGNMENT</u>

WHEREAS, the undersigned John M. Kowalski a resident of Camas, WA, (hereinafter termed "Inventor") has invented certain new and useful improvements in:

SYSTEMS AND METHODS FOR GENERATING SEQUENCES THAT ARE NEAREST TO A SET OF SEQUENCES WITH MINIMUN AVERAGE CROSS-CORRELATION

and has executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

X	Declaration executed on <u>October 29, 2007</u> ;
	or
	Having been previously filed and assigned Serial Number and filing date; and

WHEREAS Sharp Laboratories of America, Inc., a corporation of the State of Washington, (hereinafter termed "Assignee"), having a place of business at 5750 NW Pacific Rim Boulevard, Camas, State of Washington, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor hereby sells, assigns, transfers, and conveys unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any and all countries of the world for patents, certificates of inventions or other government grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial property or pursuant to any other convention, treaty, agreement or understanding; (c)

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PATENT REEL: 029532 FRAME: 0938 in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

- Said Inventor hereby covenants and agrees to cooperate with said 2. Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention: (e) for filing and prosecuting application for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefore and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, said Inventor's heirs, legal representatives and assigns.
- 4. Said Inventor hereby warrants and represents that said Inventor has not entered and will not enter into any assignment, contract, or understanding in conflict with this assignment.

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IN WITNESS WHEREOF, the said Inventor has executed this Assignment on the date given below:

(1) <u>290ct 07</u> Jøhn M. Kowalski (Date)

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RECORDED: 12/27/2012